

Figure 1.

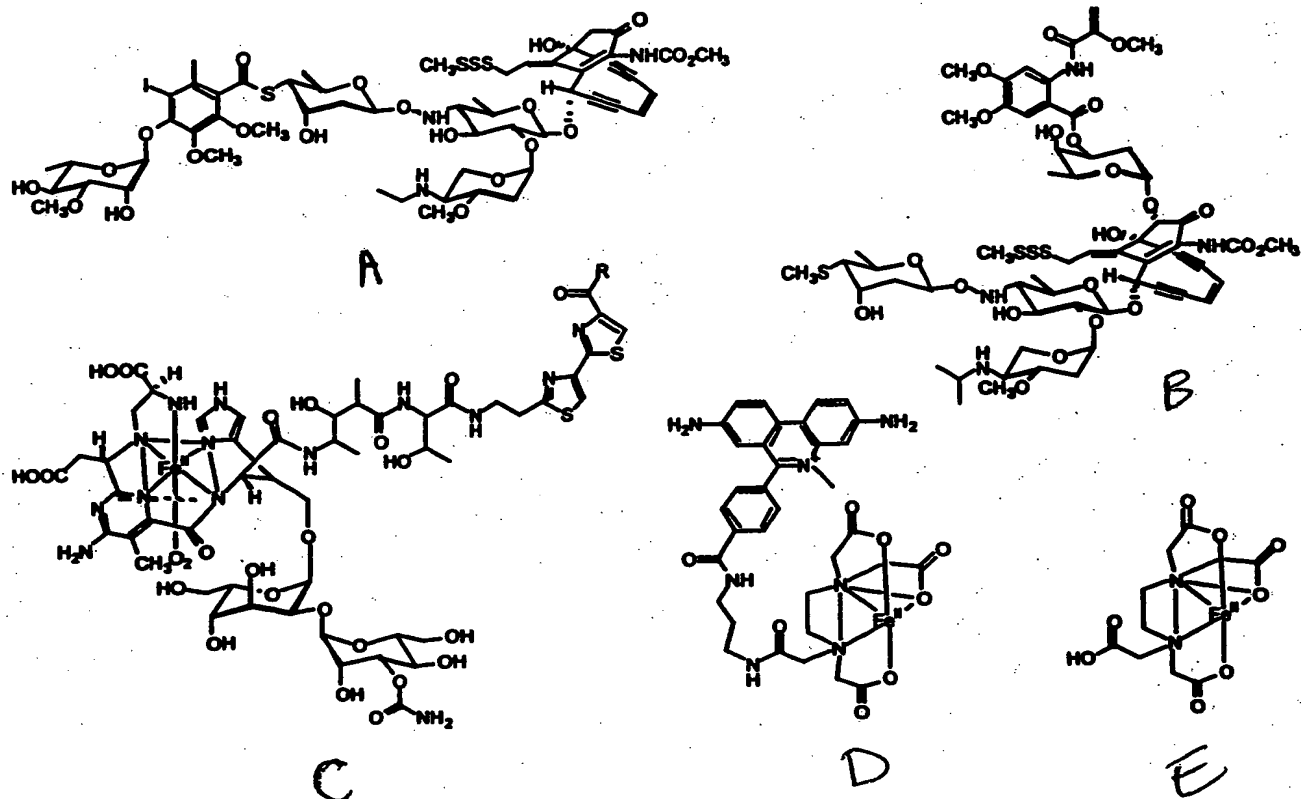
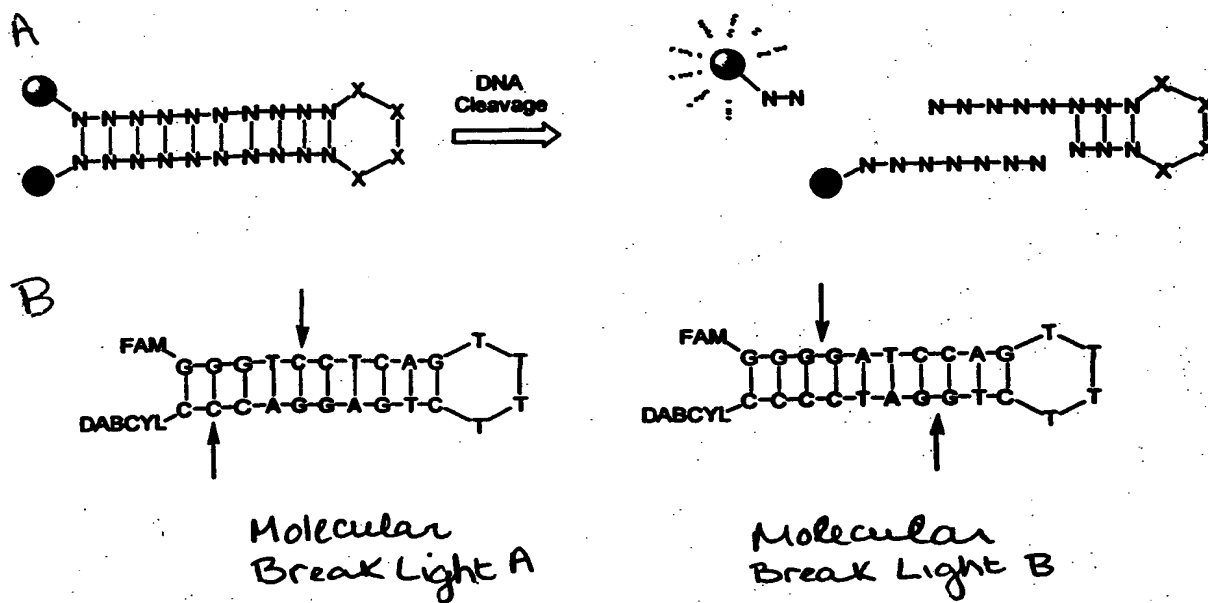


Figure 2.



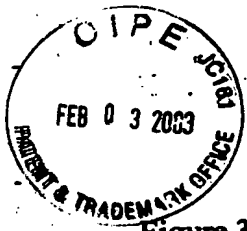
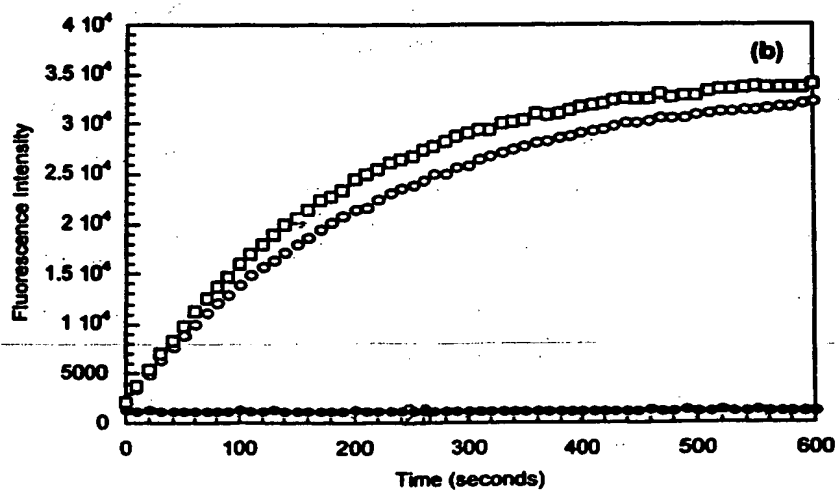
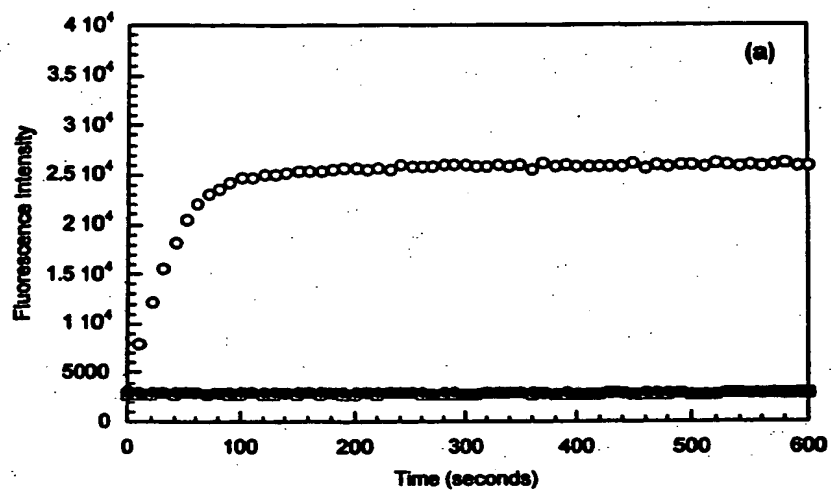


Figure 3.



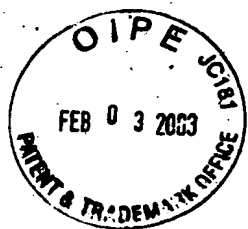
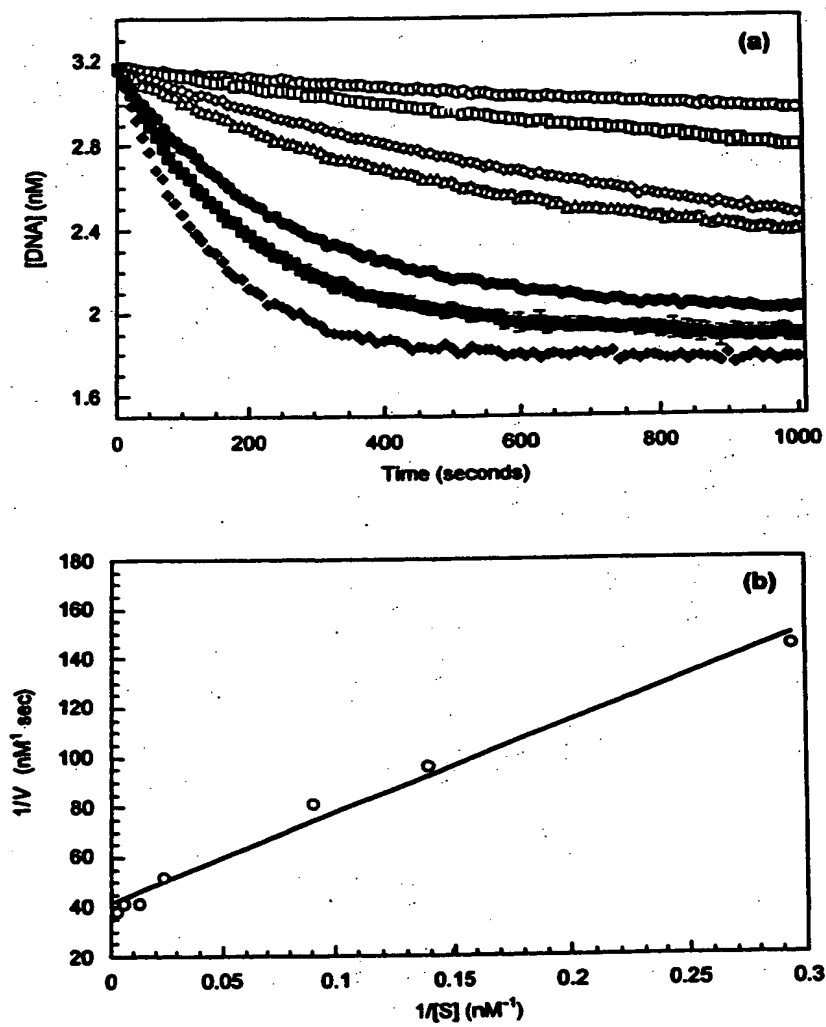


Figure 4.



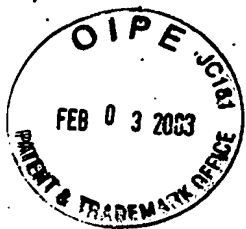


Figure 5A

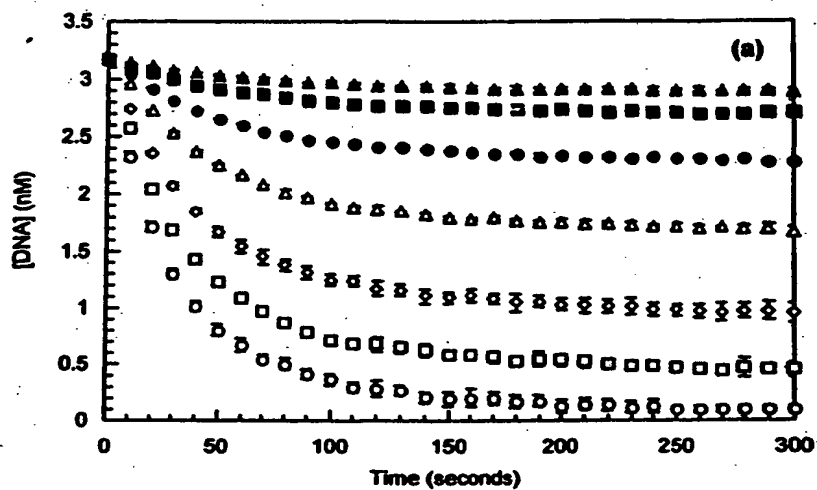
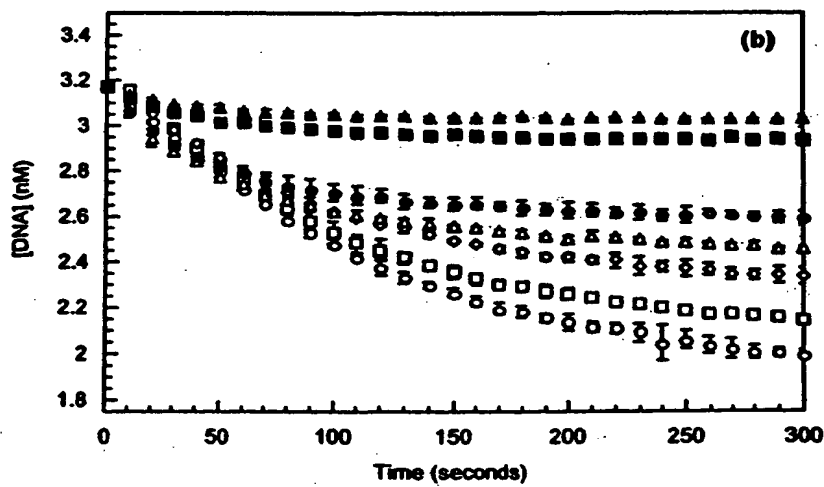


Figure 5B



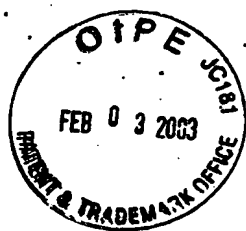
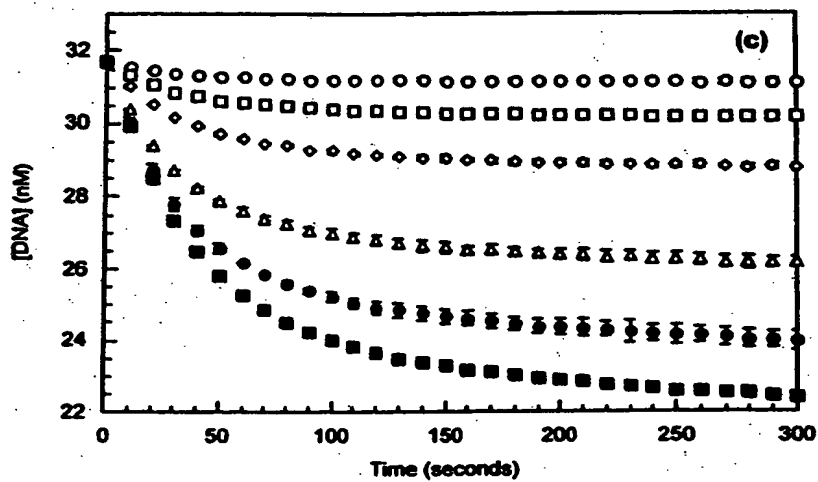


Figure 5C



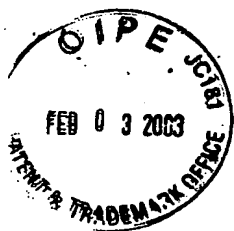
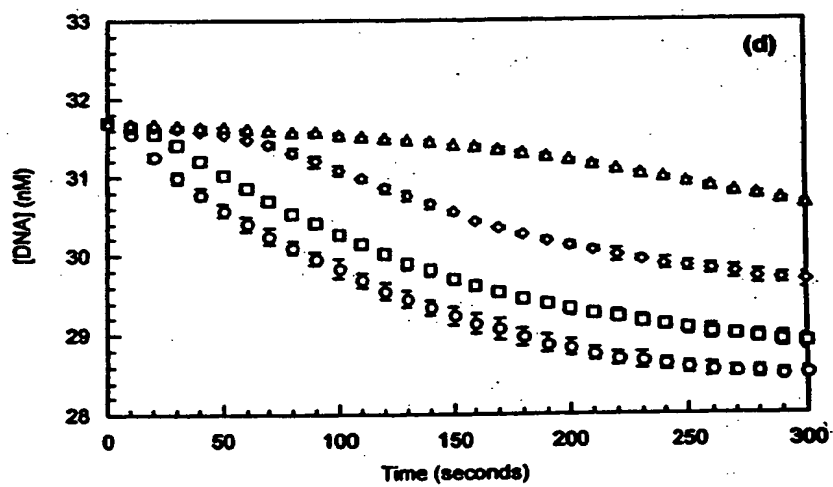


Figure 5D





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Figure 6A

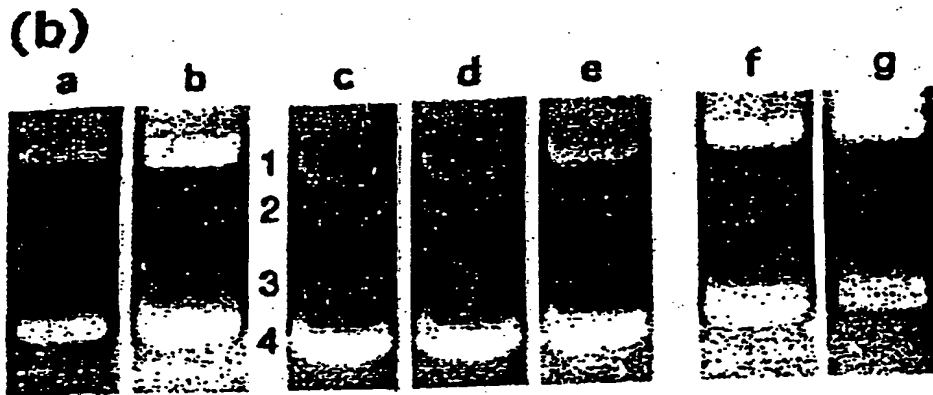
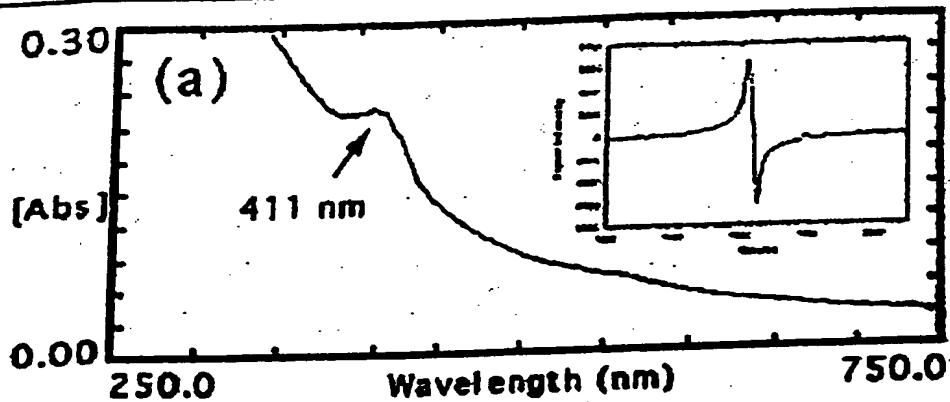


Figure 6B

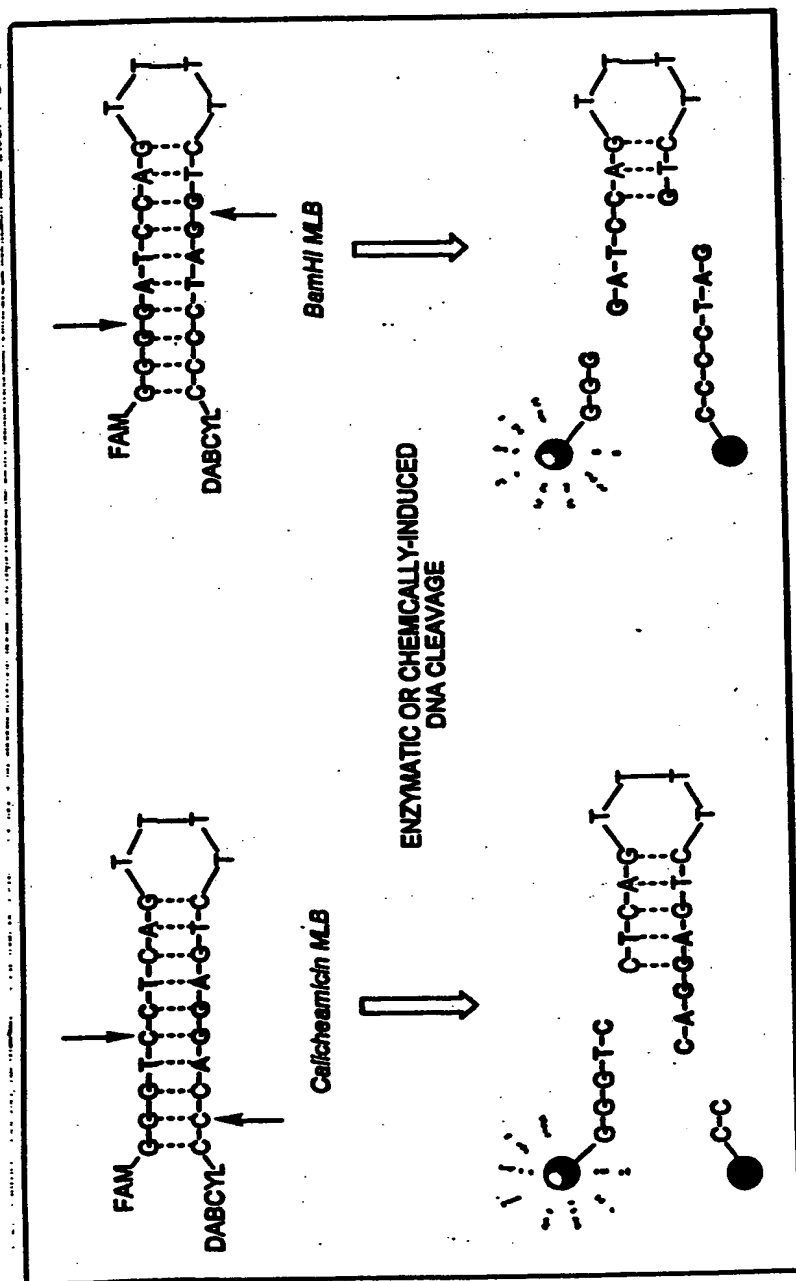


Figure 7

CalC (nmol)

0.0
1.3
2.6
3.9
5.2

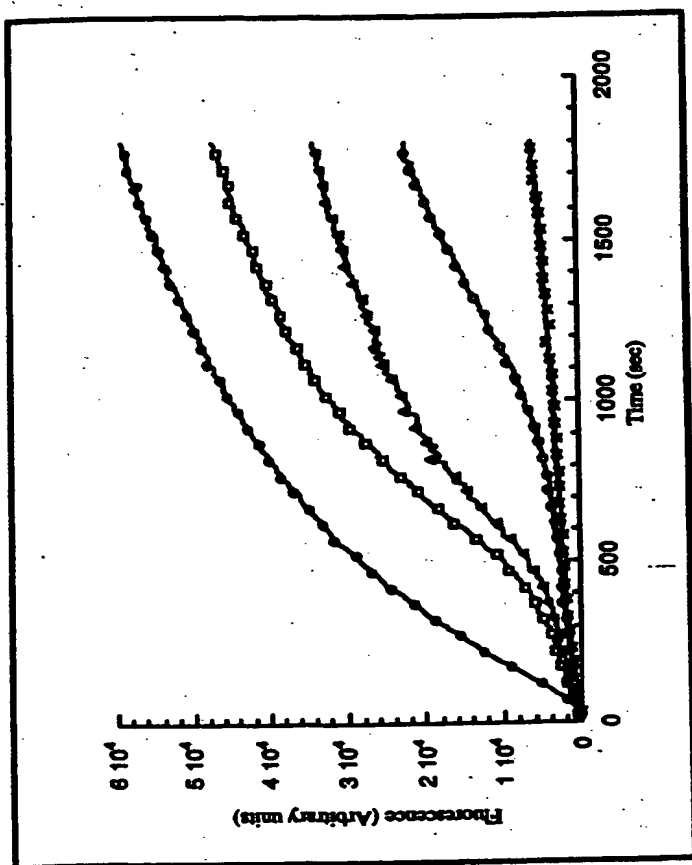


Figure 8



Table 1. A comparison of cleavage efficiencies.

Agent		V_{\max} (nM sec ⁻¹)	Turnover (sec ⁻¹) ^a	Comparison to EDTA ^b
enzymatic	<i>BamHI</i>	0.024 ± 0.001	0.007 ^c	4.8×10^5
	<i>Esperamicin A₁</i>	0.007 ± 0.001^d	0.009	6.1×10^5
	<i>Calicheamicin₇₁</i> ^f	0.011 ± 0.002^c	0.007	4.8×10^5
small	<i>Bleomycin</i>	0.009 ± 0.001^d	0.001	6.8×10^4
molecule	<i>Methidiumpropyl-EDTA</i>	0.003 ± 0.001^d	2.4×10^{-5}	1.6×10^3
catalyzed	<i>Methidiumpropyl-EDTA</i>	0.118 ± 0.004^e	0.002	1.6×10^3
	<i>EDTA</i>	0.002 ± 0.001^e	1.5×10^{-6}	1.0

^adefined as $V_{\max}/[\text{Agent}]$; ^bfold enhancement over EDTA turnover; ^calso known as k_{cat} ; ^d $[\text{DNA}]_{\text{total}} = 3.2$ nM; ^e $[\text{DNA}]_{\text{total}} = 32$ nM